



# HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180  
Torrance, California 90503-1643  
(310) 370-8370  
(310) 370-2474 FAX  
www.hygienetech.com

November 9, 2012

California State Board of Equalization  
450 N Street  
Sacramento, California 94279

Document No. 21210001.2

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Survey  
October 2012 QPCR Air Sampling

Dear Mr. Gau:

On October 26, 2012, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited fungal growth exposure assessment survey within the California State Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. Air samples were analyzed using quantitative polymerase chain reaction (QPCR) analysis. During the survey, three air samples each were collected from Floors 2, 4, 6, 8, 10, 14, 16, 18, 20, 22 and 24.

Air samples for QPCR analysis were collected on filter cassettes containing pre-loaded 37-millimeter diameter, polycarbonate filters having a pore size of four micrometers using high volume air sampling pumps. Each pump flow rate was calibrated and verified using a DryCal<sup>®</sup> DC-Lite Primary Flow Meter. All such samples were subsequently analyzed by trained and experienced microbiologists at EMLab P&K, a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing Program. Two samples per floor collected for QPCR analysis were analyzed for quantification of *Cladosporium* species via custom panel for *Cladosporium*, which included *C. cladosporioides* (Type 1), *C. cladosporioides* (Type 2), *C. herbarum*, and *C. sphaerospermum*. One sample per floor along with the outdoor samples collected for QPCR analysis were analyzed for quantification of *Cladosporium* species via custom panel for *Cladosporium*, which included *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, as well as an additional 23 important indoor molds including *Cladosporium cladosporioides* (Type 1). Applied methodology has been developed by and is licensed through the EPA.

On the survey date, the airborne spore equivalent count data as presented in Table 21210001-3A showed fungal spore equivalent types outdoors such as *Acremonium strictum*, *Alternaria alternata*, *Aspergillus flavus* (*A. flavus* and *A. oryzae*), *Aspergillus fumigatus* (*A. fumigatus* and *Neosartorya fischeri*), *Aspergillus niger* (*A. niger*, *A. foetidus* and *A. phoenicis*), *Aspergillus ochraceus* (*A. ochraceus* and *A. ostianus*), *Aspergillus ustus*, *Aspergillus versicolor*, *Cladosporium cladosporioides* (Type 1), *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, *Eurotium* (Asp.) *amstelodami* (*E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*), *Paecilomyces variotii*, *Penicillium brevicompactum*, *Penicillium chrysogenum* (Type 2), *Penicillium*



*purpurogenum*, and/or *Stachybotrys chartarum*. As presented in Tables 21210001-3A and 3B, in the indoor areas tested on the survey date, the data showed low airborne concentrations of fungal spore equivalent that included one or more of the following: *Acremonium strictum*, *Alternaria alternata*, *Aspergillus flavus* (*A. flavus* and *A. oryzae*), *Aspergillus fumigatus* (*A. fumigatus* and *Neosartorya fischeri*), *Aspergillus niger* (*A. niger*, *A. foetidus* and *A. phoenicis*), *Aspergillus ochraceus* (*A. ochraceus* and *A. ostianus*), *Aspergillus versicolor*, *Cladosporium cladosporioides* (Type 1), *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, *Eurotium* (Asp.) *amstelodami* (*E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*), *Paecilomyces variotii*, *Penicillium brevicompactum*, *Penicillium chrysogenum* (Type 2), and/or *Penicillium variable*.

Please note that *Cladosporium sphaerospermum*, the dominant species of *Cladosporium* genus identified in the heating, ventilating, and air conditioning (HVAC) duct interior was either not detected above the laboratory analytical limit or was found at very low levels in both the indoor and outdoor samples collected. The distribution of fungal spore equivalent types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. Collectively, these data were considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, changes in fungal growth within HVAC systems, or other factors.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**

Kenny K. Hsi, CIH  
Technical Director

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3A  
QUANTITATIVE PCR RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 1

## Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)

SAMPLE NUMBER	21210001-3 P01OUT	21210001-3 P06	21210001-3 P07	21210001-3 P08
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 10 feet north of the building; approximately five feet above ground/Normal outdoor activities	10 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	14 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	16 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only
<b>START/STOP</b>	05:22:00/08:22:00	05:51:00/08:51:00	05:56:00/08:56:00	06:01:00/09:01:00
<b>SAMPLE TIME</b>	180 minutes	180 minutes	180 minutes	180 minutes
Acremonium strictum	25	1	1	<1
Alternaria alternata	8	<1	2	<1
Aspergillus flavus <sup>a)</sup>	220	<1	<1	<1
Aspergillus fumigatus <sup>b)</sup>	<1	4	1	<1
Aspergillus niger <sup>c)</sup>	3	<1	1	<1
Aspergillus ochraceus <sup>d)</sup>	<1	<1	<1	<1
Aspergillus sydowii	27	<8	<6	<6
Aspergillus ustus	<1	<1	<1	<1
Aspergillus versicolor	21	<1	<1	2
Chaetomium globosum	<1	<1	<1	<1
Cladosporium cladosporioides (T-1)	23,000	14	140	56
Cladosporium cladosporioides (T-2)	89	2	2	1
Cladosporium herbarum	210	3	9	1
Cladosporium sphaerospermum	<1	1	<1	<1
Eurotium (Asp.) amstelodami <sup>e)</sup>	740	<1	12	<1
Memnoniella echinata	<1	<1	<1	<1
Paecilomyces variotii	<1	<1	<1	<1
Penicillium aurantiogriseum <sup>f)</sup>	<4	<2	<2	<2
Penicillium brevicompactum	180	<2	18	<2
Penicillium chrysogenum (T-2) <sup>g)</sup>	<1	<1	<1	<1
Penicillium purpurogenum	<3	<1	<1	<1
Penicillium variabile	<10	6	<4	<4
Scopulariopsis brevicaulis <sup>h)</sup>	<1	<1	<1	<1
Stachybotrys chartarum	<1	<1	<1	<1
Trichoderma viride <sup>i)</sup>	<1	<1	<1	<1
Ulocladium botrytis	<1	<1	<1	<1

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A. foetidus and A. phoenicis

e) Includes E. amstelodami, E. chevalieri, E. herbariorum, E. rubrum and E. repens

g) Includes dominant subgroups of species

i) Includes T. viride, T. atroviride and T. koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A. ostianus

f) Includes P. aurantiogriseum, P. freii, P. polonicum, P. tricolor and P. viridicatum

h) Includes S. brevicaulis and S. fusca



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3A  
QUANTITATIVE PCR RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 2

Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)

SAMPLE NUMBER	21210001-3 P09	21210001-3 P13OUT	21210001-3 P14	21210001-3 P15
<b>SAMPLING LOCATION/ACTIVITIES</b>	18 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	Outdoors; garage; northern portion approximately five feet above floor/Normal outdoor activities	2 <sup>nd</sup> Floor; Column 018 area; Cubicle 12; approximately five feet above floor/Normal office activities	4 <sup>th</sup> Floor; about 20 feet south of Column N20; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	06:06:00/09:06:00	09:39:00/12:40:00	09:45:00/12:45:00	09:51:00/12:51:00
<b>SAMPLE TIME</b>	180 minutes	181 minutes	180 minutes	180 minutes
<i>Acremonium strictum</i>	<1	3	<1	<1
<i>Alternaria alternata</i>	1	3	<1	<1
<i>Aspergillus flavus</i> <sup>a)</sup>	1	4	<1	<1
<i>Aspergillus fumigatus</i> <sup>b)</sup>	<1	6	<1	<1
<i>Aspergillus niger</i> <sup>c)</sup>	<1	3	<1	<1
<i>Aspergillus ochraceus</i> <sup>d)</sup>	<1	<1	<1	<1
<i>Aspergillus sydowii</i>	<6	10	<6	<1
<i>Aspergillus ustus</i>	<1	<1	<1	<1
<i>Aspergillus versicolor</i>	<1	2	<1	<1
<i>Chaetomium globosum</i>	<1	<1	<1	<1
<i>Cladosporium cladosporioides</i> (T-1)	60	3,100	39	10
<i>Cladosporium cladosporioides</i> (T-2)	1	48	1	1
<i>Cladosporium herbarum</i>	3	130	1	3
<i>Cladosporium sphaerospermum</i>	<1	15	1	1
<i>Eurotium (Asp.) amstelodami</i> <sup>e)</sup>	<1	110	<1	<1
<i>Memnoniella echinata</i>	<1	<1	<1	<1
<i>Paecilomyces variotii</i>	<1	1	<1	<1
<i>Penicillium aurantiogriseum</i> <sup>f)</sup>	<2	<2	<2	<2
<i>Penicillium brevicompactum</i>	10	240	16	4
<i>Penicillium chrysogenum</i> (T-2) <sup>g)</sup>	<1	3	3	<1
<i>Penicillium purpurogenum</i>	<1	<1	<1	<1
<i>Penicillium variabile</i>	<4	<3	<3	<4
<i>Scopulariopsis brevicaulis</i> <sup>h)</sup>	<1	<1	<1	<1
<i>Stachybotrys chartarum</i>	<1	1	<1	<1
<i>Trichoderma viride</i> <sup>i)</sup>	<1	<1	<1	<1
<i>Ulocladium botrytis</i>	<1	<1	<1	<1

a) Includes *A. flavus* and *A. oryzae*

c) Includes *A. niger*, *A. foetidus* and *A. phoenicis*

e) Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

g) Includes dominant subgroups of species

i) Includes *T. viride*, *T. atroviride* and *T. koningii*

b) Includes *A. fumigatus* and *Neosartorya fischeri*

d) Includes *A. ochraceus* and *A. ostianus*

f) Includes *P. aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor* and *P. viridicatum*

h) Includes *S. brevicaulis* and *S. fusca*



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3A  
QUANTITATIVE PCR RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 3

Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)

SAMPLE NUMBER	21210001-3 P16	21210001-3 P17	21210001-3 P25OUT	21210001-3 P34
<b>SAMPLING LOCATION/ACTIVITIES</b>	6 <sup>th</sup> Floor; Conference Room 611; southeast corner; approximately five feet above floor/Sampling activities only	8 <sup>th</sup> Floor; area between Column L18 & K18; Cubicle 92; approximately five feet above floor/Normal office activities	Outdoors; northern side; approximately five feet above floor/Normal outdoor activities	20 <sup>th</sup> Floor; cubicle at Column L22 area; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	09:54:00/12:55:00	09:59:00/12:59:00	13:49:00/16:52:00	14:37:00/17:37:00
<b>SAMPLE TIME</b>	181 minutes	180 minutes	183 minutes	180 minutes
Acremonium strictum	<1	<1	15	<1
Alternaria alternata	<1	<1	6	<1
Aspergillus flavus <sup>a)</sup>	<1	<1	<1	<1
Aspergillus fumigatus <sup>b)</sup>	<1	<1	15	<1
Aspergillus niger <sup>c)</sup>	<1	1	30	1
Aspergillus ochraceus <sup>d)</sup>	<1	1	2	<1
Aspergillus sydowii	<7	<6	<8	<5
Aspergillus ustus	<1	<1	1	<1
Aspergillus versicolor	<1	<1	3	<1
Chaetomium globosum	<1	<1	<1	<1
Cladosporium cladosporioides (T-1)	37	54	41,000	460
Cladosporium cladosporioides (T-2)	1	1	250	4
Cladosporium herbarum	1	4	290	2
Cladosporium sphaerospermum	1	1	1	1
Eurotium (Asp.) amstelodami <sup>e)</sup>	<1	3	110	<1
Memnoniella echinata	<1	<1	<1	<1
Paecilomyces variotii	<1	<1	<1	<1
Penicillium aurantiogriseum <sup>f)</sup>	<2	<2	<2	<2
Penicillium brevicompactum	<2	<2	330	<2
Penicillium chrysogenum (T-2) <sup>g)</sup>	<1	<1	<1	<1
Penicillium purpurogenum	<1	<1	2	<1
Penicillium variabile	<4	<3	<4	<3
Scopulariopsis brevicaulis <sup>h)</sup>	<1	<1	<1	<1
Stachybotrys chartarum	<1	<1	<1	<1
Trichoderma viride <sup>i)</sup>	<1	<1	<1	<1
Ulocladium botrytis	<1	<1	<1	<1

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A.foetidus and A.phoenicis

e) Includes E. amstelodami, E.chevalieri, E.herbariorum, E.rubrum and E.repens

g) Includes dominant subgroups of species

i) Includes T.viride, T.atroviride and T.koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A.ostianus

f) Includes P. aurantiogriseum, P.freii, P.polonicum, P.tricolor and P.viridicatum

h) Includes S.brevicaulis and S.fusca



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3A  
QUANTITATIVE PCR RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 4

Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)

SAMPLE NUMBER	21210001-3 P35	21210001-3 P36	21210001-3 P37 BLANK	
<b>SAMPLING LOCATION/ACTIVITIES</b>	22 <sup>nd</sup> Floor; about seven feet southeast of Column N20; approximately five feet above floor/Normal office activities	24 <sup>th</sup> Floor; Room 2427; Cubicle 23 entry area; approximately five feet above floor/Normal office activities	Field Blank	This column intentionally left blank
<b>START/STOP</b>	14:41:00/17:42:00	14:47:00/17:49:00	N/A	
<b>SAMPLE TIME</b>	181 minutes	182 minutes	N/A	
Acremonium strictum	<1	<1	<1	
Alternaria alternata	<1	<1	<1	
Aspergillus flavus <sup>a)</sup>	<1	<1	<1	
Aspergillus fumigatus <sup>b)</sup>	<1	<1	<1	
Aspergillus niger <sup>c)</sup>	<1	1	<1	
Aspergillus ochraceus <sup>d)</sup>	<1	<1	<1	
Aspergillus sydowii	<6	<7	<9	
Aspergillus ustus	<1	<1	<1	
Aspergillus versicolor	<1	<1	<1	
Chaetomium globosum	<1	<1	<1	
Cladosporium cladosporioides (T-1)	140	230	<1	
Cladosporium cladosporioides (T-2)	<1	1	<1	
Cladosporium herbarum	2	1	<1	
Cladosporium sphaerospermum	1	<1	<1	
Eurotium (Asp.) amstelodami <sup>e)</sup>	6	<1	<1	
Memnoniella echinata	<1	<1	<1	
Paecilomyces variotii	<1	<1	<1	
Penicillium aurantiogriseum <sup>f)</sup>	<2	<2	<3	
Penicillium brevicompactum	<2	7	<2	
Penicillium chrysogenum (T-2) <sup>g)</sup>	<1	<1	<1	
Penicillium purpurogenum	<1	<1	<2	
Penicillium variabile	<4	<4	<5	
Scopulariopsis brevicaulis <sup>h)</sup>	<1	<1	<1	
Stachybotrys chartarum	<1	<1	<1	
Trichoderma viride <sup>i)</sup>	<1	<1	<1	
Ulocladium botrytis	<1	<1	<1	

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A.foetidus and A.phoenicis

e) Includes E. amstelodami, E.chevalieri, E.herbariorum, E.rubrum and E.repens

g) Includes dominant subgroups of species

i) Includes T.viride, T.atroviride and T.koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A.ostianus

f) Includes P. aurantiogriseum, P.freii, P.polonicum, P.tricolor and P.viridicatum

h) Includes S.brevicaulis and S.fusca

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 1

**Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)**

SAMPLE NUMBER	21210001-3 P02	21210001-3 P03	21210001-3 P04	21210001-3 P05
<b>SAMPLING LOCATION/ACTIVITIES</b>	2 <sup>nd</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	4 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	6 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	8 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only
<b>START/STOP</b>	05:31:00/08:31:00	05:35:00/08:35:00	05:41:00/08:41:00	05:46:00/08:46:00
<b>SAMPLE TIME</b>	180 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	150	62	82	54
Cladosporium cladosporioides (T-2)	2	1	1	2
Cladosporium herbarum	3	2	4	2
Cladosporium sphaerospermum	1	<1	<1	1

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 2

Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)

SAMPLE NUMBER	21210001-3 P10	21210001-3 P11	21210001-3 P12	21210001-3 P18
<b>SAMPLING LOCATION/ACTIVITIES</b>	20 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	22 <sup>nd</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	24 <sup>th</sup> Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	10 <sup>th</sup> Floor; cubicle at Column K17; about center; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	06:10:00/09:10:00	06:15:00/09:15:00	06:20:00/09:20:00	10:05:00/13:05:00
<b>SAMPLE TIME</b>	180 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	160	140	290	80
Cladosporium cladosporioides (T-2)	4	1	1	1
Cladosporium herbarum	5	2	9	4
Cladosporium sphaerospermum	<1	<1	1	1

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 3

**Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)**

SAMPLE NUMBER	21210001-3 P19	21210001-3 P20	21210001-3 P21	21210001-3 P22
<b>SAMPLING LOCATION/ACTIVITIES</b>	14 <sup>th</sup> Floor; cubicle at Column N22 area; about center; approximately five feet above floor/Sampling activities only	16 <sup>th</sup> Floor; Column N18 area; about 10 feet north of Column N18; approximately five feet above floor/Normal office activities	18 <sup>th</sup> Floor; Column N22 area; about five feet east of Column N22; approximately five feet above floor/Normal office activities	20 <sup>th</sup> Floor; Column K20 area; about five feet north of Column K20; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	10:09:00/13:11:00	10:13:00/13:15:00	10:18:00/13:19:00	10:22:00/13:23:00
<b>SAMPLE TIME</b>	182 minutes	182 minutes	181 minutes	181 minutes
Cladosporium cladosporioides (T-1)	80	25	33	40
Cladosporium cladosporioides (T-2)	1	1	<1	1
Cladosporium herbarum	6	2	1	1
Cladosporium sphaerospermum	1	<1	<1	<1

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 4

**Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)**

SAMPLE NUMBER	21210001-3 P23	21210001-3 P24	21210001-3 P26	21210001-3 P27
<b>SAMPLING LOCATION/ACTIVITIES</b>	22 <sup>nd</sup> Floor; Room 2234; about center; approximately five feet above floor/Sampling activities only	24 <sup>th</sup> Floor; Room 2411; entry area; approximately five feet above floor/Sampling activities only	2 <sup>nd</sup> Floor; area between Column L18 and M18; about center; approximately five feet above floor/Normal office activities	4 <sup>th</sup> Floor; Column M23 area; Cubicle 143; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	10:27:00/13:29:00	10:32:00/13:32:00	13:55:00/16:57:00	14:01:00/17:01:00
<b>SAMPLE TIME</b>	182 minutes	180 minutes	182 minutes	180 minutes
Cladosporium cladosporioides (T-1)	93	110	170	630
Cladosporium cladosporioides (T-2)	<1	1	1	6
Cladosporium herbarum	5	1	1	3
Cladosporium sphaerospermum	1	<1	1	1

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 5

**Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)**

SAMPLE NUMBER	21210001-3 P28	21210001-3 P29	21210001-3 P30	21210001-3 P31
<b>SAMPLING LOCATION/ACTIVITIES</b>	6 <sup>th</sup> Floor; Column K20 area; Cubicle 53; approximately five feet above floor/ Normal office activities	8 <sup>th</sup> Floor; cubicle at Column K23; about center; approximately five feet above floor/Normal office activities	10 <sup>th</sup> Floor; Room 1013; northeastern corner; about center; approximately five feet above floor/Normal office activities	14 <sup>th</sup> Floor; cubicle at Column K22; about center; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	14:05:00/17:05:00	14:11:00/17:11:00	14:17:00/17:17:00	14:23:00/17:23:00
<b>SAMPLE TIME</b>	180 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	700	830	350	720
Cladosporium cladosporioides (T-2)	5	4	2	4
Cladosporium herbarum	3	4	4	13
Cladosporium sphaerospermum	1	<1	<1	<1

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

TABLE 21210001-3B  
QUANTITATIVE PCR RESULTS  
CLADOSPORIUM CUSTOM PANEL  
450 N STREET  
SACRAMENTO, CALIFORNIA  
OCTOBER 26, 2012

Page 6

**Results reported in spore equivalent per cubic meter of air (SE/m<sup>3</sup>)**

SAMPLE NUMBER	21210001-3 P32	21210001-3 P33		
SAMPLING LOCATION/ACTIVITIES	16 <sup>th</sup> Floor; Column L23 area; Cubicle 75; about center; approximately five feet above floor/Normal office activities	18 <sup>th</sup> Floor; Column L22 area; about five feet south of Column L22; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
START/STOP	14:26:00/17:27:00	14:32:00/17:32:00		
SAMPLE TIME	181 minutes	180 minutes		
Cladosporium cladosporioides (T-1)	720	730		
Cladosporium cladosporioides (T-2)	7	5		
Cladosporium herbarum	1	5		
Cladosporium sphaerospermum	<1	<1		



Report for:

**Mr. Kenny Hsi, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21210001-3  
EML ID: 988289

Approved by:

Dates of Analysis:  
PCR-23 important indoor molds: 11-05-2012  
PCR-Custom Panel: 11-05-2012

Technical Manager  
Aaron Agajanian

Service SOPs: PCR-23 important indoor molds (1220), PCR-Custom Panel (1220)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P01 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411476-1	
Sample Size:	1.461	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	34000	23000
Cladosporium cladosporioides (Type 2)	130	89
Cladosporium herbarum	310	210
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P02	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411478-1	
Sample Size:	1.408	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	210	150
Cladosporium cladosporioides (Type 2)	2	2
Cladosporium herbarum	5	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P03	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411479-1	
Sample Size:	1.418	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	88	62
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P04	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411480-1	
Sample Size:	1.421	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	120	82
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	6	4
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P05	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411481-1	
Sample Size:	1.382	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	74	54
Cladosporium cladosporioides (Type 2)	2	2
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P06	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411482-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	19	14
Cladosporium cladosporioides (Type 2)	3	2
Cladosporium herbarum	4	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P07	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411484-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	200	140
Cladosporium cladosporioides (Type 2)	2	2
Cladosporium herbarum	13	9
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P08	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411486-1	
Sample Size:	1.43	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	80	56
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	2	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P09	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411488-1	
Sample Size:	1.417	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	85	60
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	4	3
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P10	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411490-1	
Sample Size:	1.465	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	230	160
Cladosporium cladosporioides (Type 2)	6	4
Cladosporium herbarum	7	5
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P11	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411491-1	
Sample Size:	1.449	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	200	140
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P12	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411492-1	
Sample Size:	1.442	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	410	290
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	13	9
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P13 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411493-1	
Sample Size:	1.401	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	4300	3100
Cladosporium cladosporioides (Type 2)	68	48
Cladosporium herbarum	190	130
Cladosporium sphaerospermum	21	15

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P14	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411495-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	55	39
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P15	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411497-1	
Sample Size:	1.42	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	13	10
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	4	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P16	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411499-1	
Sample Size:	1.408	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	51	37
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	2	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P17	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411501-1	
Sample Size:	1.4	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	76	54
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	6	4
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P18	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411503-1	
Sample Size:	1.401	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	110	80
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	5	4
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P19	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411504-1	
Sample Size:	1.443	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	120	80
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	9	6
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P20	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411505-1	
Sample Size:	1.447	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	36	25
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P21	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411506-1	
Sample Size:	1.41	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	46	33
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P22	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411507-1	
Sample Size:	1.47	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	58	40
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P23	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411508-1	
Sample Size:	1.467	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	140	93
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	8	5
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P24	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411509-1	
Sample Size:	1.441	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	160	110
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P25 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411510-1	
Sample Size:	1.43	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	59000	41000
Cladosporium cladosporioides (Type 2)	350	250
Cladosporium herbarum	410	290
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P26	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411512-1	
Sample Size:	1.429	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	240	170
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P27	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411513-1	
Sample Size:	1.412	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	890	630
Cladosporium cladosporioides (Type 2)	8	6
Cladosporium herbarum	4	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P28	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411514-1	
Sample Size:	1.434	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1000	700
Cladosporium cladosporioides (Type 2)	7	5
Cladosporium herbarum	4	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P29	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411515-1	
Sample Size:	1.414	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1200	830
Cladosporium cladosporioides (Type 2)	6	4
Cladosporium herbarum	5	4
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P30	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411516-1	
Sample Size:	1.44	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	510	350
Cladosporium cladosporioides (Type 2)	3	2
Cladosporium herbarum	5	4
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P31	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411517-1	
Sample Size:	1.44	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1000	720
Cladosporium cladosporioides (Type 2)	5	4
Cladosporium herbarum	18	13
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P32	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411518-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1000	720
Cladosporium cladosporioides (Type 2)	11	7
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P33	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411519-1	
Sample Size:	1.423	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1000	730
Cladosporium cladosporioides (Type 2)	8	5
Cladosporium herbarum	8	5
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P34	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411520-1	
Sample Size:	1.466	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	670	460
Cladosporium cladosporioides (Type 2)	6	4
Cladosporium herbarum	2	2
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P35	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411522-1	
Sample Size:	1.425	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	340	140
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P36	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411524-1	
Sample Size:	1.459	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	330	230
Cladosporium cladosporioides (Type 2)	2	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	21210001-3 P37 BLANK	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411526-1	
Sample Size:	1	
Unit:	sample	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	ND	<1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	ND	<1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Kenny Hsi, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21210001-3  
EML ID: 988289

Approved by:

Dates of Analysis:  
PCR-23 important indoor molds: 11-05-2012

Technical Manager  
Aaron Agajanian

Service SOPs: PCR-23 important indoor molds (1220)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P01 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411477-1	
Sample Size:	1.461	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	37	25
Alternaria alternata	12	8
Aspergillus flavus	320	220
Aspergillus fumigatus	ND	<1
Aspergillus niger	4	3
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	40	27
Aspergillus ustus	ND	<1
Aspergillus versicolor	30	21
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	34000	23000
Eurotium (Asp.) amstelodami	1100	740
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<4
Penicillium brevicompactum	260	180
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<3
Penicillium variabile	ND	<10
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P06	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411483-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	2	1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	6	4
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<8
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	19	14
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	9	6
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P07	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411485-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	1	1
Alternaria alternata	2	2
Aspergillus flavus	ND	<1
Aspergillus fumigatus	1	1
Aspergillus niger	1	1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	200	140
Eurotium (Asp.) amstelodami	17	12
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	26	18
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P08	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411487-1	
Sample Size:	1.43	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	2	2
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	80	56
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P09	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411489-1	
Sample Size:	1.417	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	1	1
Aspergillus flavus	1	1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	85	60
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	14	10
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P13 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411494-1	
Sample Size:	1.401	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	4	3
Alternaria alternata	4	3
Aspergillus flavus	6	4
Aspergillus fumigatus	8	6
Aspergillus niger	4	3
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	14	10
Aspergillus ustus	ND	<1
Aspergillus versicolor	2	2
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	4300	3100
Eurotium (Asp.) amstelodami	160	110
Memnoniella echinata	ND	<1
Paecilomyces variotii	1	1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	340	240
Penicillium chrysogenum (Type 2)	4	3
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<3
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	1	1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P14	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411496-1	
Sample Size:	1.436	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	55	39
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	22	16
Penicillium chrysogenum (Type 2)	4	3
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<3
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P15	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411498-1	
Sample Size:	1.42	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<1
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	13	10
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	6	4
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P16	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411500-1	
Sample Size:	1.408	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<7
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	51	37
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P17	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411502-1	
Sample Size:	1.4	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	1	1
Aspergillus ochraceus	1	1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	76	54
Eurotium (Asp.) amstelodami	5	3
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<3
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P25 OUT	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411511-1	
Sample Size:	1.43	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	22	15
Alternaria alternata	9	6
Aspergillus flavus	ND	<1
Aspergillus fumigatus	21	15
Aspergillus niger	43	30
Aspergillus ochraceus	3	2
Aspergillus sydowii	ND	<8
Aspergillus ustus	1	1
Aspergillus versicolor	4	3
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	59000	41000
Eurotium (Asp.) amstelodami	160	110
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	470	330
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	3	2
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
 Re: 21210001-3

Date of Sampling: 10-26-2012  
 Date of Receipt: 10-29-2012  
 Date of Report: 11-08-2012

**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P34	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411521-1	
Sample Size:	1.466	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	1	1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<5
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	670	460
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<3
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:**

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*  
*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*  
*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*  
*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*  
*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*  
*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum*  
*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species  
*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*  
*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P35	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411523-1	
Sample Size:	1.425	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<6
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	200	140
Eurotium (Asp.) amstelodami	9	6
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Aerotech Laboratories, Inc

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P36	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411525-1	
Sample Size:	1.459	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	1	1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<7
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	330	230
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<2
Penicillium brevicompactum	10	7
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<4
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu  
Re: 21210001-3Date of Sampling: 10-26-2012  
Date of Receipt: 10-29-2012  
Date of Report: 11-08-2012**23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY**

Location:	21210001-3 P37 BLANK	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4411527-1	
Sample Size:	1	
Unit:	sample	
	SE*	SE*/Unit
Acremonium strictum	ND	<1
Alternaria alternata	ND	<1
Aspergillus flavus	ND	<1
Aspergillus fumigatus	ND	<1
Aspergillus niger	ND	<1
Aspergillus ochraceus	ND	<1
Aspergillus sydowii	ND	<9
Aspergillus ustus	ND	<1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	ND	<1
Eurotium (Asp.) amstelodami	ND	<1
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	ND	<3
Penicillium brevicompactum	ND	<2
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	ND	<2
Penicillium variabile	ND	<5
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents ND = Not Detected

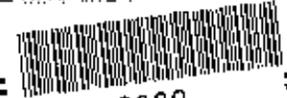
**Comments:***Aspergillus flavus*: Includes *A. flavus* and *A. oryzae**Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri**Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis**Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus**Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens**Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. frei*, *P. polonicum*, *P. tricolor*, *P. viridicatum**Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca**Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



# HYGIENE TECH

Hygiene Technologies International, Inc.



000988289

180

1643

(310) 370-8370

(310) 370-2474 FAX

www.hygienetech.com

## Request For Analysis

Project Number/~~Purchase Order~~: 21210001-3 Date Submitted: 10/29/12  
 Project Contact: L Sandhu / IC-HSI Turnaround Required: Normal  
 Lab Destination: EM LAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21210001-3 P01 out	1461 L	3Amm Spc 0.4mm pcf	PCR Custom panel (Clostridium)
21210001-3 P02	1408 L		
21210001-3 P03	1418 L		
21210001-3 P04	1421 L		
21210001-3 P05	1382 L		
21210001-3 P06	1436 L		
21210001-3 P07	1436 L		
21210001-3 P08	1430 L		
21210001-3 P09	1417 L		
21210001-3 P10	1465 L		
21210001-3 P11	1449 L		
21210001-3 P12	1442 L		

Special Instructions: please also analyze sample No's P01 out P06, P07, P08 & P09 for PCR analysis

1. Sampled by: L Sandhu 10/26/12 @ 5:22 Received by: [Signature]  
 2. Relinquished by: L Sandhu 04 10/29/12 @ 11:40 Received by: [Signature] 10/29/12 2:00  
 3. Relinquished by: [Signature] 10:00 Received by: [Signature] 10/30/12

Please include signature, date, and time

Lab Use Only:



## Request For Analysis

Project Number/Purchase Order: 21210001-3 Date Submitted: 10/29/12  
 Project Contact: L. Sandhu / K. Hsi Turnaround Required: Normal  
 Lab Destination: ETA LAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21210001-3 P13OUT	1401 L	34 mm 3PC 0.4 µm PCF	PCR Custom panel <i>C. Colado spori um</i>
21210001-3 P14	1436 L	↓	↓
21210001-3 P15	1420 L		
21210001-3 P16	1408 L		
21210001-3 P17	1400 L		
21210001-3 P18	1401 L		
21210001-3 P19	1443 L		
21210001-3 P20	1447 L		
21210001-3 P21	1410 L		
21210001-3 P22	1470 L		
21210001-3 P23	1467 L		
21210001-3 P24	1441 L		

Special Instructions: Please also analyze sample Nels P13 OUT, P14, P15, P16 & P17 for PCR analysis

1. Sampled by: L. Sandhu on 10/26/12 @ 9:30 Received by: [Signature]  
 2. Relinquished by: L. Sandhu on 10/26/12 @ 11:40 Received by: [Signature]  
 3. Relinquished by: ETA 10/26 Received by: [Signature]

Please include signature, date, and time

Lab Use Only:



## Request For Analysis

Project Number/Purchase Order: 21210001-3 Date Submitted: 10/29/12  
 Project Contact: L-Sandhu/K-Hsi Turnaround Required: Normal  
 Lab Destination: EM LAB Lab Contact: Sample Relinquish

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21210001-3 P25out	1430 L	37mm SPC 0.4um PCE	PCR custom panel (Cladosporium)
21210001-3 P26	1429 L		
21210001-3 P27	1412 L		
21210001-3 P28	1434 L		
21210001-3 P29	1414 L		
21210001-3 P30	1440 L		
21210001-3 P31	1440 L		
21210001-3 P32	1436 L		
21210001-3 P33	1423 L		
21210001-3 P34	1466 L		
21210001-3 P35	1425 L		
21210001-3 P36	1459 L		
21210001-3 P37 BLANK	N/A	↓	↓

Special Instructions: PLEASE ALSO ANALYZE SAMPLE NO'S P25out, P34, P35, P36 & P37 BLANK FOR PCR ANALYSIS.

1. Sampled by: [Signature] on 10/26/12 @ 13:49 Received by: [Signature]  
 2. Relinquished by: [Signature] on 10/29/12 @ 11:42 Received by: [Signature]  
 3. Relinquished by: [Signature] on 10/29/12 Received by: [Signature]  
 Please include signature, date, and time

Lab Use Only: